

IN THE ABSTRACT:

Please delete the entire Abstract, and replace with the following new Abstract:

ABSTRACT OF THE DISCLOSURE

A method of using the Earth mantle substance for hydrogen production. One area of application is the production of cheap and efficient energy resources, in particular, a fuel for internal-combustion engines. Exploration of continental and oceanic rifting areas is performed in locations supported by abnormal mantle diapirs with the mantle substance near the crust of the Earth. Drilling wells into the mantle substance is performed with help of turbodrills. A reaction cavity is formed by linkage of the injection and production wells and/or reaming the wells after the wells are inserted into the mantle substance. Water is supplied into the injection well, and hydrogen gas, produced in a reaction of water with intermetallic compounds, contained in the mantle substance, is brought to the surface by the production well.